

SEVERE LOCAL STORMS FOR JULY 1948

[The table hereunder contains such data as have been received concerning severe local storms that occurred during the month. A revised list will appear in the United States Meteorological Yearbook]

Place	Date	Time	Width of path, yards	Loss of life	Value of property destroyed	Character of storm	Remarks
Harrison County, Ohio	1	Afternoon				Wind	Considerable damage to property, trees, and crops; 1 person injured.
Kittson County, Minn., northwestern part.	1	1:30 p. m.	1 1/2		\$50,000	Hail	Damaged growing crops and real property.
Rosholt, Wis.	1	10 p. m.			35,000	Electrical	High school building struck by lightning and burned.
New London, Wis., near	1	10:30 p. m.			2,100	do	Barn, silo, and 15 loads of hay destroyed by lightning fire.
Hortonville, Wis.	1	10:45 p. m.				do	Lightning damaged home "as if a bomb had hit it" and started damaging fire in garage.
Green Bay, Wis.	2	Early a. m.			50,000	do	Lightning struck power line leading into 2-story Fabry Glove and Mitten Co. building, starting fire in basement. Damage to building \$15,000, to stock, \$35,000.
Sarasota, Fla.	2	Afternoon			100,000	do	Fire started by lightning destroyed warehouse and 25 trailers.
Kittson County, Minn., northwestern part.	2	5 p. m.			20,000	Thunderstorm	Barns, outbuildings, and granaries moved from foundations or otherwise damaged; trees uprooted.
Harper County, Kans.	3	6 to 9 p. m.	1 1/4		50,000	Hail	8 miles east of Anthony in vicinities of Freeport and Bluff City. Chief damage to wheat; many fields completely destroyed.
Donegal, Pa.	3					Thunderstorm	Lightning struck and burned a barn. Crops damaged considerably.
Putnam, Tex.	4	10 a. m.	50	0	1,000	Tornado	
Louisville, Ky.	4	6 p. m.			12,000	Wind Squall	3 persons injured when 2 small planes overturned.
Elkins, W. Va.	4					Electrical	Water works pumping station struck by lightning.
Scranton, Pa., vicinity	5	Afternoon			10,000	Thunderstorm	High winds, lightning, and hail damaged trees, utility lines, crops, and buildings. Hail to depth of 1 inch.
Wilkes-Barre, Pa.	5	5:30-11:40 p. m.			250,000	Electrical	Lightning struck and fire burned a school building; also struck hotel roof, trolley wires, residence, and picnic pavilion, where 2 persons were slightly injured.
Jackson and Wood Counties, W. Va., portions of.	5	6-8 p. m.				Thunderstorm	Several farm homes and buildings damaged severely, and some damage to crops from wind and hail. Winds in excess of 45 m. p. h. at Parkersburg-Wood County Airport.
Southeastern Outagamie and northwestern Calumet Counties, Wis.	5	6:10-7 p. m.			12,000	do	Wind wrecked barn near Sherwood. Wind and hail broke plate glass and greenhouse windows at Little Chute and windows at Kaukauna; minor crop damage.
Chambersburg, Pa.	5	Evening		0	10,000	Tornado	Section of new wall damaged. Many shade trees and plantings at Wilson College campus twisted off.
Rhode Island, southern Connecticut, and eastern Massachusetts.	5-6	4 p. m.-4 a. m.			250,000	Thunderstorm	Greatest damage in Fall River, Mass., area, where lightning set fire to building containing a large stock of plumbing supplies; damage estimated at \$200,000. A mill building also struck and fired; estimated damage, \$10,000. Many small fires. Roofs, wires, and trees damaged throughout whole area; also streets and cellars flooded. Many small craft upset in Narragansett Bay. Hailstones, as large as marbles, caused minor damage in New Haven, Conn. Wind squalls notably severe in Fitchburg, Mass., region, where Telephone Company reported 400 lines and 1,300 stations out of commission.
Baltimore, Md.	6	4 a. m.				do	Strong winds toppled trees and tore off limbs, severing telephone and electric wires.
Middle Hope, N. Y.	6	2:30-2:45 p. m.	1 1/2		75,000	Wind and hail	Hailstones, ranging up to size of walnuts, cut currants, cherries, grapes, apples, and peaches, while hail and wind took some fruit from trees.
Lewellen, Nebr., 3 miles east.	6	3 p. m.				Hail	90 percent loss of small grain and alfalfa.
Rhode Island, southern Connecticut, and eastern Massachusetts.	6	4-6 p. m.; 10 p. m.-midnight.		1	25,000	Thunderstorm	Storms strikingly similar to those of previous evening and night, both in locale and energy. Many buildings damaged by lightning, few seriously. Much flooding of cellars and streets by excessively heavy downpours. A yachtsman at Marblehead, Mass., swept overboard and drowned. Telephones and electric lights in many communities put out of service.
Randolph and Barbour Counties, W. Va., portions of.	6	Late afternoon.				do	Waterworks pumping station at Elkins struck by lightning. Much wind damage in vicinity of Junior, Belington, and Norton.
Fluvanna and Louisa Counties, Va.	6	5-6 p. m.	1 1/2		28,000	Hail and wind	Area affected reached from Bybee to Hadensville. Corn, tobacco, and truck crops badly damaged; old buildings wrecked and some unroofed.
Bishopville, S. C.	6	6 p. m.			2,500	Wind	6 houses damaged.
Menomonee, Wis.	6	11 p. m.-midnight.			5,000	Thunderstorm	Roof of grandstand at fair grounds blown off, damaging roof of another building.
Towanda, Pa.	6					do	Wind blew down trees and broke power lines.
York, Pa.	6					do	Wind blew down trees and broke power lines.
Solomons, Md.	6					Wind	Reported as a twister. Occurred inland about 8 miles above Solomons, completely demolishing 2 barns.
Titusville, Fla.	7	3 p. m.		1		Electrical	1 death by lightning.
Rescoe to Paxton, Keith County, Nebr.	7	5 p. m.	1 1/2		30,000	Hail and wind	50 to 100 percent loss of wheat and corn in path 8 miles long.
Lincoln County, N. Mex., southeastern.	8	1-2 p. m.			5,000	Hail	Most of damage to orchards; some windows broken and roofs damaged.
Fernandina, Fla., 10 miles south.	8	Afternoon		1		Electrical	1 death by lightning.
Pensacola, Fla.	8-9	Night			500	Minor tropical disturbance.	Pensacola maximum wind velocity of 32 m. p. h. from southeast. Low areas flooded. Water damage, \$500.
Wausau, Fla.	9	4 a. m.		0	8,000	Tornado	House and 2 barns destroyed. Trees downed over large area; 2 minor injuries.
Goldthwaite, Tex.	9	4:50 p. m.			300	Wind	East wind, reaching 60 m. p. h., blew part of roof off lumber yard.
Sidney, Nebr., north of.	9	Evening	1 1/2			Hail	50 percent loss to crops in path 3 to 4 miles long; damage, several thousand dollars.
Roswell, N. Mex.	10	5 p. m.			45,000	Wind	Considerable damage to hangar and planes at Municipal Airport.
Ruidoso, N. Mex.	10	6:30 p. m.			15,000	Hail	
Lynn County, Tex.	10					do	1,200 acres of cotton destroyed in northern part of Lynn County. Some damage at Tahoka.
Haskell, Tex., near	11	4:15 p. m.		0	1,000	Tornado and hail	
Aroostook County, Maine, southern portion.	11	Afternoon				Thunderstorm	Storm described in local press as "twister," but no supporting evidence. Near Houlton, Maine, hailstones were mostly in form of comparatively thin discs, resembling checkers or game counters, and more than 1 1/4 inches in diameter. Considerable window glass broken in Littleton, Maine, by hailstones. Crop damage slight.
Tahoka, Tex., near	11					Hail	Several hundred acres of cotton east and northeast of Tahoka destroyed.
South Dakota, western portion.	12	Afternoon			500,000	do	Heavy hail damage in Deer Creek, New Underwood, and Box Elder vicinities. Small grain suffered losses from 25 to 50 percent. Some corn wiped out in spots.
Prairie du Chien, Wis., near	12	Afternoon		1		Electrical	1 person killed and another injured by lightning which struck tree under which they were standing.
Milan, Tenn.	13	Afternoon				Thunderstorm	Damage from heavy rain.
Des Moines, Iowa.	13	8 p. m.			250,000	do	Clubhouse at Wakonda Club destroyed by fire after being struck by lightning. 5 firemen injured, 4 seriously, when section of wall collapsed. Wind and rain uprooted trees and broke limbs; electric power service disrupted for about 2 hours.

See footnote at end of table

SEVERE LOCAL STORMS FOR JULY 1948—Continued

Place	Date	Time	Width of path, yards	Loss of life	Value of property destroyed	Character of storm	Remarks
Iowa, scattered localities.....	13	Afternoon and evening.				Thunderstorms	Heavy rain, wind, and hail. Heavy rain caused damage of \$8,000 to property at Perry. Some damage at Marshalltown, Monroe, Newton, and Sac City.
Seioto County, Ohio.....	13			1		Electrical	Man struck by lightning and killed while standing under a tree; 2 other men injured.
Wellsville, Pa.	13					do	Lightning struck and burned a barn.
Braxton, Calhoun, and Marshall Counties, W. Va., portions of.	13-14	During night.			157,450	Thunderstorms	General thunderstorm conditions, with locally heavy rains causing flash floods; over 25 homes flooded. Damage to railroad property estimated at \$2,000, and damage to highways and bridges estimated at \$90,000. Damage to corn, hay, gardens, poultry, farm buildings, and machinery estimated at \$65,300 in Marshall County.
Ellis County, Kans.....	14	4:30 p. m.	12-6		200,000	Hail	Occurred from Ellis to Hays. Especially severe at Ellis, where 50 to 75 percent of windows on north sides of houses were broken, and roofs and automobiles were badly damaged.
Northeastern Barton, Rice, northern Reno, and Sedgewick Counties, Kans.	14	6:30-9:30 p. m.	20-30	1	8,730,000	Thunderstorm and small tornado.	Damage especially severe in Nickerson, south Hutchinson, and Wichita. Practically all buildings in Nickerson damaged or demolished. In Hutchinson and Wichita damage greatest of record. Chief damage from wind. A small tornado cloud seen in western Hutchinson, but its effects masked by general windstorm. 30 percent of damage was to crops.
Laramie County, Wyo., eastern portion.	14	7 p. m.	12		100,500	Hail	Approximately \$100,000 damage to growing crops and \$500 damage to buildings, automobiles, etc.
Apache, Colo.	14	P. m.			5,000	do	Principal loss to wheat crop.
Canon City, Colo.	14	9:45-11:50 p. m.	1 3/4		100,000	do	Hail, size of marbles, caused \$50,000 loss to buildings, automobiles, and neon signs, and \$50,000 loss to apples, cherries, and truck crops.
Elk County, Kans.....	14	10:30 p. m.	830	0	7,500	Wind and tornado	Storm struck 2 1/2 miles northeast of Howard. Damage to rural property. Tornado moved southeastward in path 300 feet wide and 4 1/2 miles long in connection with general windstorm.
Agullar, Colo.	14	11 p. m.	11		20,000	Hail	Hailstones an inch in diameter damaged crops.
Trinidad, Colo.	14	11:30 p. m.	5 1/4		250,000	do	Hail caused damage of \$200,000 to crops and \$50,000 damage to buildings; power lines and equipment over 20-mile-long path.
Kirtley, Wyo.	14			0	0	Tornado	Funnel sighted but did not reach ground.
Watkins, Colo.	15	6 p. m.	5 1/4		400,000	Hail	Severe to total loss to grain in path 20 miles long.
Stratton, Colo.	15	9 p. m.	1		100,000	do	Hail an inch in diameter damaged wheat in path 18 miles long.
Scottsbluff County, Nebr., west of Morrill.	15			0		Wind, with tornado characteristics.	Demolished buildings, including an elevator; overturned empty coal cars.
Scottsbluff County, Nebr., near Mitchell and Gering.	15					Thunderstorm	Hail and rain very destructive to crops in some fields; damage, several thousand dollars.
Lordsburg, N. Mex.	16	3:30 p. m.			35,000	Wind	Hangar roof and 2 walls blown down; 7 planes badly damaged.
Newport, Jackson County, Ark.	17	Afternoon			10,000	Thunderstorm	Trees uprooted and roofs damaged.
Clay County, Nebr., south of Edgar.	18	9 a. m.	3-5		100,000	Hail	Crops in some fields totally destroyed in path 15 miles long.
Thayer County, Nebr.	18	9 a. m.	2		10,000	do	Some damage to corn foliage, small grain in shock, and gardens in path 14 miles long.
Baldwinsville, N. Y.	18	2:30-3 p. m.	220		700	do	A very localized hailstorm, with stones up to 1 1/4 inches in diameter, caused \$100 damage to buildings and \$600 loss to crops.
Pine Bluff, Jefferson County, Ark.	18	Afternoon			3,000	Thunderstorm	2.47 inches of rain in slightly less than an hour, flooded streets and 2 bakeries.
Opa-Locks, Fla., near Miami.	18	Afternoon		0		Tornado	Some windows broken.
Wilkes-Barre, Pa.	18	5:15 p. m.				Thunderstorm	Trees and branches snapped; windows blown out; and great damage to utilities by wind, rain, and lightning.
Glenrock, Wyo., near.	18		800	0		Tornado and hail	2 sheep wagons demolished and considerable amount of timber uprooted. Damage slight.
Waukegan, Wis., near.	19	5-5:30 a. m.	1-1 1/4		67,500	Hail and wind	Length of path 4 1/4 miles. Some hailstones 1 1/4 inches in diameter. Main damage to small grains, corn, and tobacco.
Lyon and Osceola Counties, Iowa.	19	4:30-5:30 p. m.	3-5		140,000	do	Hail accompanied by strong wind and heavy rain, mowed path from 3 miles south of Little Rock, Lyon County, eastward to near Ashton and south of Melvin in Osceola County. Worst damage from hail. Ashton to Melvin area. Corn and soybeans stripped of leaves and stalks broken. Oats badly stripped. In storm area, 5 miles wide and 25 miles long, over-all destruction estimated at 15 to 25 percent, with total destruction in spots. Power service interrupted in Ashton from broken lines. Property damaged on 24 farmssteads, mainly from high winds. Hailstones averaged only 1/4 inch in diameter but fell with great intensity and in large numbers, causing heavy damage. Damage to growing crops, \$100,000; remainder of loss to farm buildings. 2 injuries.
Jackson, Wyo.	19			1		Electrical.	Boy struck and killed by lightning.
St. Louis, Mo.	19	10:22 a. m.			2,000	Electrical, wind, and rain.	Thunderstorm from northwest blew down trees and wires and slightly injured 4 persons. Lightning struck 4 buildings and a streetcar, resulting in \$2,000 damages. Heavy, driving rain cut visibility to 1/4 mile.
Wateree Township, 10 miles south of Camden, S. C.	19	6:45 p. m.		4	1,000	Electrical	Dwelling caught fire from lightning, and 4 occupants burned to death.
Sandy River community, Pittsylvania County, Va.	19	Late afternoon		1		do	Lightning killed 1 person and stunned several others among group of 8 in tobacco barn.
Monroeton, Pa.	19			1		do	Lightning struck and killed man.
Towanda, Pa.	19			1		do	Lightning struck and killed man; also set fire to a house.
Wateree Township, 10 miles south of Camden, S. C.	20	Afternoon			2,000	do	2 race horses killed by lightning.
Meeker, Colo.	20	Afternoon		1		do	Man struck by lightning died.
Princess Anne County, Va.	20	Late afternoon			25,000	Wind and electrical.	Area of destruction from Bayville Farms to Virginia Beach Airport. 7 prize cows killed; hangar and 5 planes destroyed; 1 automobile crushed.
Northeastern Swift and northwestern Kandiyohi Counties, Minn.	20	P. m.	2		65,000	Hail	Heavy hail that accompanied a severe thunderstorm caused much damage to growing crops and some to real property.
Fairmont, Minn., vicinity of.	20	8 p. m.			1,000	Electrical	Several farm animals killed by lightning.
N. Dak., southwestern portion.	20	Late evening	20		30,000	Wind and hail	About a dozen small farm buildings blown down in Grant and southwestern Morton Counties.
Iowa, southern portion.	20	Night				Rain	6.20 inches of rain at Greenfield, and 5.35 inches of rain at Atlantic in little more than 4 hours. No serious damage.
South Dakota, central portion.	20					Hail, wind, and rain	Hail in Lyman, Mellette, Jones, and Tripp Counties damaged crops from 10 to 100 percent. Hail and high winds damaged crops, up to 100 percent loss in Sanborn County. Lightning in Brown County wrecked several buildings and high winds and heavy rain damaged some hay crops.
Rock Island-Moline area, Ill.	21	1:15 a. m.			20,000	Rain	3.42 inches of rain at Moline Airport flooded streets, washed out gardens, and beat down small grains. Some unimproved streets washed out.
Smith Valley, Johnson County, Ind.	21	6 a. m.				do	Honey and Sutton Creeks overflowed. Crops covered with mud. 2 small bridges washed out.

See footnote at end of table

SEVERE LOCAL STORMS FOR JULY 1948—Continued

Place	Date	Time	Width of path, yards	Loss of life	Value of property destroyed	Character of storm	Remarks
Keenesburg, Colo.	21	1:30-2 p. m.	1 1/4		11,000	Rain	Hailstones up to the size of pigeon eggs caused severe damage 2 miles west of Prospect Valley. Beans, small grains, cabbage, beets, potatoes, and hay were principal crops affected.
Cuba City and Benton, Wis.	21	8:45-10 p. m.			1,000	Wind and rain	Trees and utility lines downed in places.
Fairfield, Hocking, Pickaway, and Athens Counties, Ohio.	21-22	11 p. m.-1 a. m.			2,000,000	Rain	Flash flood in upper Hocking River and tributaries. More than 10 inches of rain in about 3 hours over an area of several square miles. 18 bridges washed out; 3 carloads of lumber floated away; and business establishments damaged. 2,000 homes flooded in Lancaster and several destroyed. Lowlands along Hocking River flooded from above Lancaster to Athens. Corn and wheat in shock damaged and livestock drowned.
Maricopa and Yuma Counties, Ariz.	22	Early morning			2,000	Thunderstorms	Highway damage from washing, near Peoria, Morristown, Bouse, and at 12-Mile Hill near Ehrenberg. Traffic disrupted several hours.
Viriden, Macoupin County, Ill.	22	4:14 a. m.			5,000	Wind	A few buildings damaged by falling trees.
Chatham area, Sangamon County, Ill.	22	4:30 a. m.	1 1		70,000	do.	Most of damage to corn and oats. One building under construction blown down.
Glen Carbon area, Madison County, Ill.	22	5 a. m.	880		20,000	do.	Several porches blown off homes and several roofs damaged. Considerable crop damage.
Decatur area, Ill.	22	5:15 a. m.			20,000	do.	Heaviest damage to oats and corn. A few thousand dollars damage to airplanes at municipal airport and considerable other minor damage.
Ingham and Eaton Counties, Mich.	22	6-6:18 a. m.	1 2		20,000	Thunderstorms	Extensive crop damage. Barns, trees, and utility poles blown down; electric and telephone lines damaged. One person injured. Livestock killed. Airplane damaged when blown across highway. Most damage in V-shaped strip extending north and east of Eaton Rapids. Minor blows 2 miles north of Charlotte, again in Leslie section, and area just west of Mason.
Waukesha, Wis., and vicinity.	22	1:15-2 p. m.	1 1		20,000	Wind, hail, and rain.	Falling trees broke power lines and damaged a car and several homes; wind and heavy hail damaged some roofs, broke store windows, and flattened small grain. Estimated damage by hail, \$2,500 to property and \$2,500 to crops; hailstones up to 2 inches in diameter.
Nashville, Tenn.	22	Afternoon			250,000	Thunderstorm	Damage to telephone and power lines.
Rockford area, Ill.	22	4 p. m.	1 4	0	210,000	Wind and possible tornado.	Storm swept 14-mile path through Winnebago County. Several buildings unroofed; many trees uprooted; severe damage to crops, mainly corn and oats.
Pueblo, Colo.	22	8:28-9:59 p. m.			165,000	Hail and wind	Hail in east and south portions of city damaged gardens and buildings. Hail losses estimated at \$130,000; wind damage, \$35,000.
Harrisburg, Pa., vicinity	22	Night				Thunderstorm	Strong winds damaged utility lines; both feeder lines, of 66,000 and 12,000 volts, respectively, from Harrisburg to Carlisle were knocked out.
New Park, Pa.	22	11 p. m.			10,000	Electrical	Lightning struck and burned barn.
West Virginia, north-central sections.	22-23	Evening to early morning.				Thunderstorms	Locally heavy rains caused flash floods. Wash-outs and landslides disrupted railroad and highway traffic. Damage to crops and gardens from high winds and floodwaters. Damage estimated in hundreds of thousands of dollars.
Coachella Valley, Calif., western portion.	23	12 midnight-3 a. m.			75,000	Thunderstorm	Storm extended from Cabazon to Indio but most severe around Palm Springs, Garner, and Desert Hot Springs. Basements flooded, building foundations, roads, and part of All American Canal washed out. Highway traffic disrupted.
Cambridge, Md.	23	12:30 p. m.		1		Electrical, wind, and rain.	Lightning struck and killed boy as he crouched near mast of log canoe; 1 other boy stunned. Strong gusts toppled trees; power and electrical service disrupted. Streets and roads inundated by heavy rain. Wind toppled smokestack at lumber plant. Lightning struck at least 5 different buildings.
Duncannon, Pa.	23	7 p. m.			1,800	Electrical	Lightning felled 155-foot television tower.
Penn Line, Pa.	23					Thunderstorm	Wind damaged trees and electric lines; also blew down barn.
Price, Utah	24	12 noon-12:45 p. m.	1 1			Hail	Hailstones up to 2 inches in diameter affected area 2 miles long. Considerable damage to property: Roofs damaged, neon signs broken, plate glass windows smashed, and gardens destroyed.
Casper, Wyo.	24	4 p. m.	1 30		4,000	Wind	\$1,000 damage to trees in Casper. Small airplane, valued at \$3,000, demolished at Wardwell Field.
Jacksonville, Fla.	24	5-8 p. m.				Thunderstorm	Naval Air Station reported gusts up to 43 m. p. h. WPDQ radio tower struck and damaged by lightning; station off air 40 minutes. Minor damage to telephone and power lines.
Clearwater, Fla.	24	5:35 p. m.	50	0	1,500	Waterspouts and tornadoes.	2 waterspouts from Gulf, becoming small tornadoes. 1 small tornado formed inland. Roofs blown from 2 houses. Several small boats damaged.
Beardsley, Minn., and vicinity.	24	9:50 p. m.	1 2		50,000	Thunderstorms	4 barns wrecked; trees, silos, and windmills blown over; poles and wires down; homes, small buildings, and farm machinery damaged.
South Dakota, western portion.	24					Hail and wind	Severe storm damaged crops and buildings in vicinity of Sturgis.
Chapin area, Morgan County, Ill.	25	5:15 p. m.			15,000	Wind and rain	Some crops up to 90 percent loss. Many barns and sheds blown down.
Springfield area, Ill.	25	5:20 p. m.			10,000	do.	Wind damaged several homes and other buildings. Rain washed out sections of railroad track.
Elsberry, Lincoln County, Mo.	25	7 p. m.				do.	Many trees blown down; several basements flooded; many power lines down; some damage to crops. 3 persons injured, none seriously.
Cassville, Barry County, Mo.	26	2:30 a. m.				do.	Minor damage to buildings, utility lines, and automobiles caused by falling tree limbs. Minor damage to crops in lowland areas from standing water.
Stuttgart, Arkansas County, Ark.	26	Evening			5,000	Thunderstorm	Trees blown down in western part of county, and limbs torn from trees in other sections. Heavy rain accompanied storm.
Des Moines, Iowa.	27	1:45-1:55 a. m.			50,000	Wind	2.02 inches of rain fell in a 35-minute period, flooding streets to depth of 20 inches.
Nuckolls County, south of Nelson, Nebr.	27	3:30 a. m.	1 2			Hail	Driving rain and local windstorm struck Des Moines Airport, damaging hangar and about 35 airplanes, 4 beyond repair. 60-m. p. h. winds, with strong gusts. A maximum instantaneous gust of 95 m. p. h. reported. Roof ripped off hangar and door blown in. Damage to airplanes \$24,500; the remainder to hangar. Trees uprooted or blown over.
Sullivan and Linn Counties, Mo.	27	1-2 p. m.	1 1-3		110,000	Hail and wind	Damage varied considerably, reaching 100 percent to some corn. Path 5 miles long.
Big Timber Ridge, Bortom County, Va.	27	5 p. m.		1		Electrical	Storm originated near Browning, and moved southeastward into Linn County. Only minor damage to crops in Sullivan County, but in Linn County, particularly in New Garden area, hail damage was severe. Some cornfields completely destroyed. Hailstones ranged from 1/4 to 4 1/4 inches in diameter. Communication and power lines broken by wind. Damage to crops estimated at \$60,000, and to property, \$50,000. Bulk of damage caused by hail.
Parke County, Ind.	27	5:30 p. m.	1 2		2,500	Hail and wind	Man killed by lightning.
Brazil, Ind., vicinity of.	27	6 p. m.	1 1		75,000	Hail	Hail up to 1 inch diameter.
Linesville, Pa.	27					Electrical	Stones up to 2 inches diameter. Heavy rain.
Dalhart, Tex.	27	9:30 p. m.		0	1,000	Tornado	Lightning struck and burned barn; many trees and 2 silos blown down.

See footnote at end of table

SEVERE LOCAL STORMS FOR JULY 1948—Continued

Place	Date	Time	Width of path, yards	Loss of life	Value of property destroyed	Character of storm	Remarks
Potsdam, N. Y.	27	10 p. m.				Hail	Hailstones ranging up to 2 inches in diameter fell in portion of Potsdam, breaking windows, denting automobile tops, and making 46 holes in fuselage of an airplane.
Wheeling-Ohio County, Airport, W. Va.	27	11:05 p. m.				Wind	Gusty 30-m. p. h. wind, accompanying squall line, caused wreckage of a helium-filled blimp being secured to mooring mast.
Central Counties, Ohio	27					Hail, wind, and electrical	Hail did considerable damage to corn and oats in Champaign and Marion Counties; also some wind damage. Considerable wind damage in Delaware and Licking Counties. Several buildings, planes, and hangars destroyed at Barborton, Summit County, by fire apparently started by lightning.
Havre, Mont., vicinity	27					Wind and dust	Thundersquall with wind of 40 m. p. h. damaged ripening barley and spring wheat; 10 to 50 percent loss reported from about 40 farms. Dust reduced visibility to $\frac{1}{2}$ mile for 32 minutes.
Harlan and Furnas Counties, Nebr.	28	7 p. m.				Hail and wind	Considerable damage to crops and buildings.
Gosper County, Nebr., northwest third.	28	7:30 p. m.	15		100,000	do	Path 25 miles long. Small buildings blown over; moderate to 100 percent corn damage.
Knox County, near Wausa, Nebr.	28	Night				Electrical	Lightning set fire to barn, which burned down. Considerable damage.
Lancaster, Wis., 9 miles east.	29	5:15 p. m.	50	1	25,400	Tornado	Destroyed a large hay-filled barn, injuring 2 men, 1 fatally; 2 smaller buildings wrecked; 400 chickens killed. Wrecked farm home and machine shed and damaged machines on another nearby farm. Funnel cloud moved northeastward and lifted. Probably same tornado that later struck near Linden and again near Springfield Corners, Wis.
Leroy and Union Townships, Benton County, Iowa.	29	5:10—5:30 p. m.	100	0	23,000	do	Storm originated near Belle Plaine; traveled northeastward along path of 6 miles; lowered and touched ground several times. No damage north of Highway 30. About 6 farmsteads damaged. Crop loss small.
Linden, Wis., 3 miles west.	29	5:25 p. m.	333	0	11,100	Small tornado	Storm moved northeastward in path 1 mile long. Destroyed 1 barn; damaged 6 smaller buildings; injured 3 head of livestock; blew down trees; damaged oats and corn.
Springfield Corners, Wis., 2 miles northwest.	29	6 p. m.	133	1	21,500	Tornado	Storm moved northeastward. Funnel cloud touched ground 3 times in 2-mile path. Demolished house; killed 1 and injured 11 persons; wrecked barn and garage; damaged another barn and several smaller buildings; killed several hundred chickens; damaged corn, grain, and hay.
La Crosse, Wis., 4 miles southeast.	29	6:20—6:50 p. m.		0	500	Small tornado	Funnel cloud observed moving northeastward up side of ridge and lifting. Path short. Trees uprooted near Maple Grove Club, blocking highway and disrupting communication service; 10 acres of corn damaged.
Cascade to Dubuque, Dubuque County, Iowa.	29	7:30—8:45 p. m.		0	300,000	Tornado	Tornado formed north of Cascade in heavy thunderstorm. Several funnel-shaped clouds observed in rain area 5 miles northwest of Cascade. One funnel larger and more prominent than the rest and accounted for most of damage as it traveled northeastward, skipping over countryside. Funnel-shaped clouds retained their characteristics until after they passed through the extreme northwest section of Dubuque. Damage confined strictly to path of tornado, which varied considerably in width; greatest width, 5 miles, northwest of Cascade. Storm losses to crops, \$50,000, included in total.
Picher, Ottawa County, Okla.	30				100,000	Electrical	Lightning struck mill at zinc and lead smelter.
Enid, Garfield County, Okla.	30				25,000	Wind and electrical	Principal damage by high wind to hangars and other buildings at air base. Lightning burned out pumps at city's wells.

¹ Miles instead of yards.

LATE STORM REPORTS FOR MAY AND JUNE 1948

[The table hereunder contains such data as were received concerning severe local storms that occurred during these months. A revised list will appear in the United States Meteorological Yearbook]

Place	Date	Time	Width of path, yards	Loss of life	Value of property destroyed	Character of storm	Remarks
New Danville, Fairview, and Refton, Lancaster County, Pa.	May 17	5 p. m.	16			Hail	Hailstones in size from peas to small cherries, fell to depth of 8 inches locally. Much damage to vegetables and flowers; interruptions to power service.
Verona and vicinity, Lawrence County, Mo.	June 21	8:23 p. m.	300		\$3,000	Wind	Many trees uprooted or broken off, some falling on houses, barns, and an automobile; several outbuildings demolished and some barns unroofed; telephone service disrupted. Reported as tornado, but evidence insufficient. Some wheat and oat fields flattened, with slight damage.
Wakenda, northwest of, Carroll County, Mo.	22	10:15 p. m.	20		3,100	do	Storm struck 2 farms, damaging a new machine shed at one farm and felling tree on house at other. Wheat damaged to some extent.

¹ Miles instead of yards.